### COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

# RESPONSE OF BAY STATE GAS COMPANY TO THE THIRD SET OF INFORMATION REQUESTS FROM THE ATTORNEY GENERAL D. T. E. 05-27

Date: July 20, 2005

Responsible: John E. Skirtich, Consultant (Revenue Requirements)

#### SUPPLEMENTAL RESPONSE

AG-3-16 Referring to Exhibit BSG/JES-1, Workpaper JES-6, page 20, line 10,

please provide a copy of the letter of engagement as well all work product

and invoices to date as a result of that engagement.

Response: Please see Attachment AG-3-16 (a) for copies of contractual agreements

between Bay State Gas Company and META Group and other related

material.

Attachment AG-3-16 (b) includes copies of all META Group invoices that

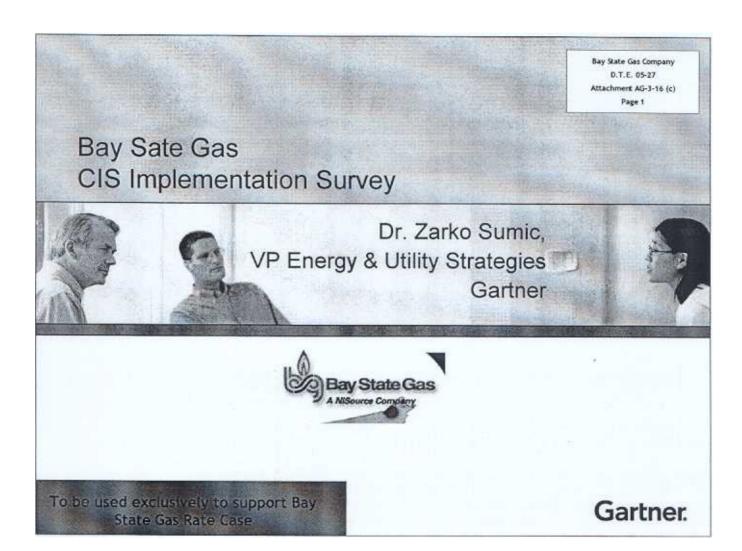
have been processed to date.

The work product from META Group has not been finalized, and will be

provided upon completion.

#### SUPPLEMENTAL RESPONSE

See Attachment AG-3-16 (c) for a copy of the META Group work product.



### **CIS Implementation Cost:** Sample Demographic 1

Bay State Gas Company D.T.E. 05-27 Attachment AG-3-16 (c) Page 2

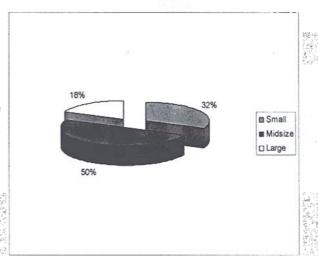
### ■38 CIS implementation projects analyzed

- 12 Small energy utilities (under 500,000 meters)
- 19 Midsize energy utilities (from 500,000 to 1,500,000 meters)
- 7 Large energy utilities (above 1,500,000 meters)

### ■Average utility size:

- 1,255,637 meters

#### Number of CIS Implementations by Category

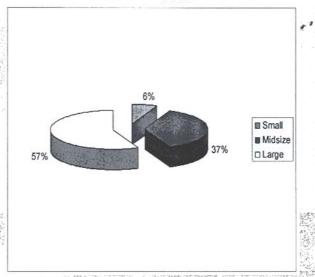


### **CIS Implementation Cost:** Sample Demographic 2

Bay State Gas Company D.T.E. 05-27

- ■Aggregated number of meters per category
- ■Small
  - 3,078,174
- ■Midsize
  - 17,765,392
- ■Large
  - 26,878,520
- ■Total number of meters under consideration
  - 47,714,218\*

**Number of Meters by Category** 



\* This represent more then 15% of total meters in US market

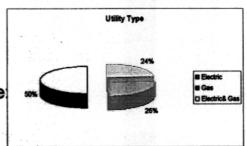
### **CIS Implementation Cost:** Sample Demographic 3

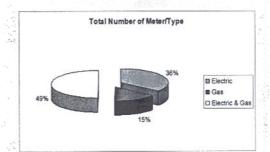
State Gas Com D.T.E. 05-27 ent AG-3-16 (c)

### ■CIS Implementation by Utility Type

- 9 Electric utilities
- 10 Gas utilities
- 19 Electric & Gas utilities
- ■Total Number of Meter by Utility Type
  - Electric
    - 16,953,702
  - Gas
    - 7,041,972
  - Electric & Gas
    - 23,718,544

### CIS Implementation by Utility Type

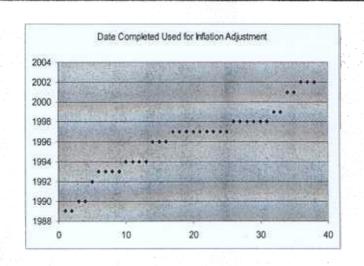




### **CIS Implementation Cost:** Implementation dates and inflation adjustment

Bay State Gas Company D.T.E. 05-27 Attachment AG-3-16 (c)

Year	CPI
1989	1.51
1990	1.43
1992	1.33
1993	1.29
1994	1.26
1996	1.19
1997	1.17
1998	1.15
1999	1.12
2001	1.06
2002	1.04





### **Small Utilities**

**Bay State Gas Company** D.T.E. 05-27 Attachment AG-3-16 (c)

									1		
A STATE OF	Company	Servicos	Size	Number of Melers (FERC)	CIS System	Total Cost Reported	Cost per Meter at the time	Total Cost Reported Adjusted for inflation	Cost per Meter Adjusted for Infletion	Date Completed Used for Inflation Adjustment	Source
1	Kansas City Power & Light	Electric	Small	450,000	\$PL	\$15,000,000	· \$33	\$17,730,000	\$39	1997	AGA/EEI Survey
2	Clay Electric Coop-FL	Electric	Smell	140,000	Orcom	\$4,000,000	\$29	\$4,730,000	\$34	1997	META EIS
3	Bangor Hydro - Electric Co.	Electric	Small	113,216	вст	\$6,000,000	\$63	\$7,250,000	\$64	1996	Chartwell 1998
4	Orange & Rockland	Electric & Gas	Small	406,632	Customer 1	\$25,000,000	\$61	\$29,550,000	\$73	1997	META EIS
5	Utilicorp Unitedinc. (Aquile)	Electric & Gas	Small	376,314	SPL	\$35,000,000	\$83	\$40,730,000	\$108	1998	Chartwell 1998
6	Western Resources	Electric & Gas	Smell	349,041	Customer 1	\$35,000,000	\$100	\$50,800,000	\$146	1990	META EIS
7	City of Palo Alto	Electric, Gas, Water	Small	<b>\$1,000</b>	вст	\$1,200,000	\$20	\$1,420,000	\$23	1997	G2R
8	Alabama Gas Corporation	Gas	Small	450,000	PwC	\$15,000,000	\$33	\$18,140,000	\$40	1996	AGA/EÉI Survey
9	Equitable Gas	Ges	Small	270,000	PwC	\$15,000,000	\$54	\$19,690,000	\$73	1993	META EIS
10	Yankee Gas Service Company	Gas	Small	178,972	IBMCSS	\$8,500,000	\$47	\$9,890,000	\$65	1998	AGA/EEI Survey
11	Berkshire Gas Co. (Energy East)	Gas	Small	33,060	SFG	\$2,000,000	\$61	\$2,364,000	\$72	1997	Chartwell 1998
12	City of Charlotta Utilities	Electric	Small	250,000	SCT	\$5,400,000	<b>\$22</b>	\$6,380,000	\$26	1997	Chartwell 1998
13	Bay State Gas	Gas	Small	330,000	NIPSCO	23,670000	\$71.72	2461680	\$74.59	2002	Bay Sate Gas
INTI	ERNAL DOCUMENT: FOR DISCUSSION ON	LY, NOT FOR DISTRIBUTION.			_					Gar	tner.



# Midsize Utilities

**Bay State Gas Company** D.T.E. 05-27 Attachment AG-3-16 (c)

		60000000000000000000000000000000000000								Page	7
X is a	Company	Berviose	Otra	Number of Meters (FERC)	CIS System	Total Cost Reported	Cool per Mater of the Unio	Total Cost Proported Adjusted for infaction	Cost per Motor Adjusted for infution	Wand for Infarior Adjustment	Source
1	Carolina Power & Light (CP&L)	Electric	Mideize	1,250,288	Customer 1	\$45,000,000	\$36	\$59,800,000	\$48	1993	META EIS
2	Conectiv	Electric & Gas	Mideize	994,095	SAP	\$50,000,000	\$50	\$58,190,000	\$50	1998	META EIS
3	Gempra	Electric & Gas	Midsige	1,245,869	Customer 1	\$40,000,000	\$32	\$51,200,000	\$41	1964	META EIS
4	Baltimore Gea & Electric	Électric & Gas	Midqizo	1,158,322	Customer 1	\$77,000.000	\$00	\$117,800,000	\$102	1989	META EIS
5	Electric & Gas Utility	Electric & Gas	Midsize	1,000,000	SCT	33,000,000	\$33	34,800,000	\$35	2002	META ÉIS
	Oklahoma Gas & Electric	Electric & Gas	Mideize	755,490	SAP	50,000,000	\$66	56,190,000	\$77	1998	META EIS
7	Portland General Electric	Electric & Gas	Midelze	733,766	SCT	60,000,000	306	53,560,000	\$73	2001	META EIS
	Louisville Gas & Electric	Electric & Gas	Midsize	700,000	PWC	20,000,000	\$29	27,040,000	\$39	1992	META EIS
	MidAmerican Energy Co.	Electric & Gas	Midsize	689,919	Customer 1	45,000,000	\$65	50,300,000	\$73	1997	Chartwell 1998
10	Minois Power	Electric & Gaa	Midalze	622,548	Customer 1	40,000,000	\$64	49,600,000	\$80	1993	METAEIS
11	SCANA	Electric & Gas	Midniza	553,282	PwC	45,000,000	\$81	63,190,000	106	1999	META EIS
12	Colorado Springs Utilities.	Electric, Gas, Water	Midnize	561,824	SPL.	12,000,000	\$22	14,510,000	\$26	1990	Chartwell 1998
13	1Pt, Energy	Gm	Midelze	1,300,000	PwG	55,300,000	\$43	60,800,000	\$47	1996	AGA/EEI Survey
14	CNG (bought by Dominion)	Gas	Midsize	1,200,000	PMC	40,000,000	\$33	47,280,000	\$30	1997	AGA/EED Survey
15	Michoon (merged with DTÉ)	Gás	Midalzo	1,200,000	IBM	50,000,000	\$42	59,100,000	\$49	1997	META EIS
16	Southwest Gas Corporation	Gas	Midalza	1,120,000	ACTRON	15,000,000	\$13	20,600,000	; \$10	1990	METAEIS
17	Electric & Gae Utility	Electric & Gas	Midsize	1,400,000	×	75,000,000	\$54	60,340,000	\$57	2001	META EIS
18	Piedmont Natural Gas	Gas	Midsize	710,000	PwG	15,000,000	\$21	21,770,000	\$31	1994	META EIS
19	Gas Company	Gas	Midsize	580,000	PwC	24,000,000	\$41	36,720,000	\$63	1989	META EIS
	TOUR DOGUMENT FOR PROMOTOR	ON V HOT FOR DISTRIB								Ga	rtner.



# Large Utilities

Bay State Gas Company D.T.E. 05-27 Attachment AG-3-16 (c) Page 8

	Company	Services	Size	Number of Molecus - (FERC)	CIS System	Ton Cor		Total Goet Reported Adjusted for Inflation of	Cost per Meter Adjusted for Inflation	Date Complet ed Used for imitation Adjustme nt	Ecorca Contract
1	Southern California Edison	Electric	Large	4,632,840	Custom IBM	176,300,000	<b>\$39</b>	185,580,000	\$41	2002	META EIS
2	Southern Company	Electric	Large	4,118,577	Customer 1	120,000,000	129	153,600,000	\$37	1994	META EIS
3	Commonwealth Edison	Electric	Large	3,927,761	Customer 1	100,600,600	125	128,000,000	\$33	1994	META EIS
4	GPU	Electric	Large	2,171,601	SAP	60,000,000	<b>\$23</b>	58,199,500	\$27	1998	META EIS
5	Pacific Gas & Electric	Electric & Gas	Large	8,660,600	SPL.	240,000,000	139	253,070,000	129	2002	META EIS
6	Cincinnati Gas & Electric	Electric & Gas	Large	1,734,000	CSC/Severn Trent	80,000,000	548	105,020,000	\$61	1993	AGA/EEI Surv
7	Niagara Mohawk	Electric & Gas	Large	1,726,453	Customer 1	56,930,000	<b>\$33</b>	63,000,000	\$31	1999	META EIS

D.T.E. 05-27 Attachment AG-3-16 (c)

Page 9

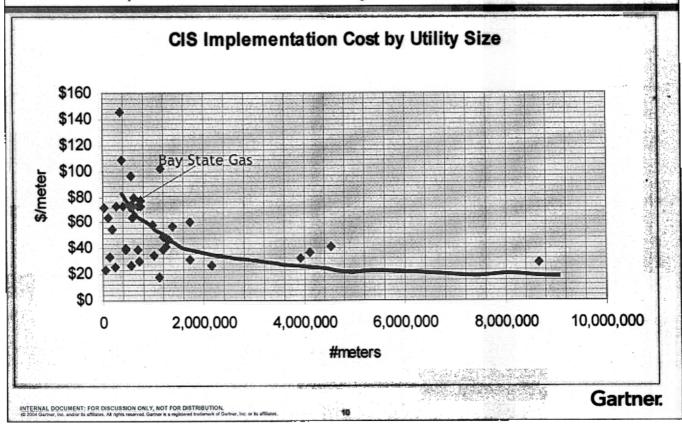
# Implementation Cost Range per Utility Type

Utility Characteristics	Electric Ut	littes	s Gas Utilities Electric & Gas			s Utilities	
	Range \$ / Meter	Data Points	Range \$ / Meter	Data Points	Range \$ / Meter	Data Points	
Small Utilities (<500,000 Meters) Bay State Gas Company & Northern Utilities (Maine & New Hampshire)	\$34-\$64	4	\$40-\$73 \$74.6	4	\$23-\$146	4	
Midsize Utilities 00,000 – 1,500,000 Meters)	\$48	1	\$18-\$63	6	\$26-\$102	12	
Large Utilities (>1,500,000 Meters)	\$27-\$41	4	2		\$29-\$61	3	

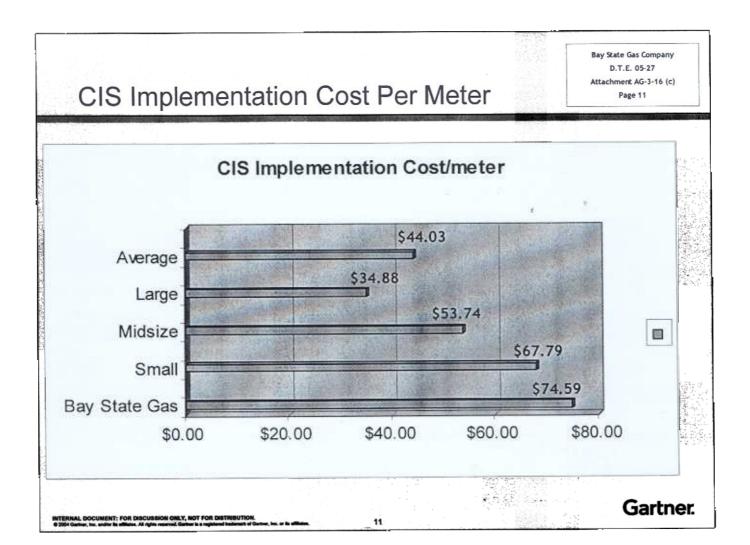


## CIS Implementation Cost by Size

Bay State Gas Company D.T.E. 05-27 Attachment AG-3-16 (c) Page 10



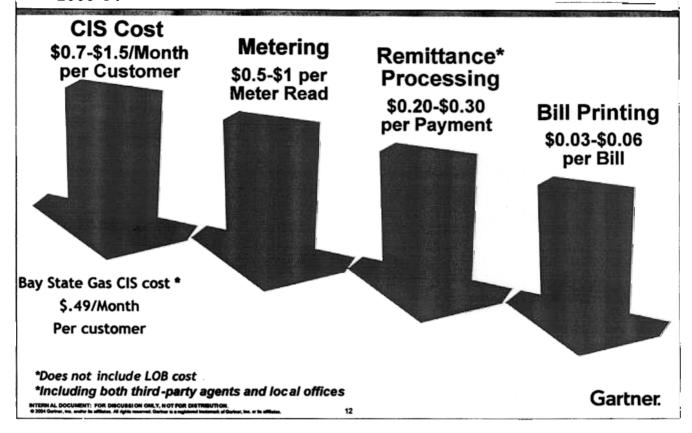






CIS Pricing Benchmarks and Trends: 2000-04

**Bay State Gas Company** D.T.E. 05-27 chement AG-3-16 (c)



### COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

# RESPONSE OF BAY STATE GAS COMPANY TO THE NINTH SET OF INFORMATION REQUESTS FROM THE ATTORNEY GENERAL D. T. E. 05-27

Date: July 20, 2005

Responsible: Joseph A. Ferro, Manager Regulatory Policy

#### **BULK ATTACHMENT**

AG-9-38 Please provide all audit reports and related documents associated with

audits or reviews conducted by Bay State personnel, outside auditors or consultants or by NCSC of the Company's CGA, LDAF or any component of these reconciling adjustment mechanisms that have been conducted

during the past 5 years (2000-present).

Response: The Company and NCSC have informally reviewed Bay State's CGAC

and LDAC processes on a consistent basis and as part of the overall regulatory oversight and management of these processes since the CGAC was initiated in 1989. In other words, the NCSC and Bay State accounting staff routinely conduct evaluations of the efficacy and accuracy of the processes employed, but these activities do not result in

any formal issuance of a final report.

There have been no audits or reviews of Bay State's CGA or LDAC since 2000 conducted by an outside auditor or consultant, although Mr. Bryant agreed in in-hearing testimony that Bay State would submit to such an audit if the Department believed it was necessary.

Mr. Ferro recalls three reviews of a more focused nature that may be responsive to this request, however, no final reports or audit reports were issued from these three formal internal reviews. Nevertheless, as described below, these reviews did result in actions being taken that improve the Company's regulatory performance with regard to its CGAC and its LDAC.

One internal review Mr. Ferro recalls was undertaken to streamline the flow of data, with the intention or hope that such a process would facilitate the: (1) calculation of seasonal CGAs by better integrating the forecasting models; (2) generation of monthly variance reporting; and (3) preparation of changing to a Simplified MBA approach. The focus was to accomplish these initiatives by adopting the use of an MS Access Database. The review concluded with the development of a scaled down MS Access Database incorporating a revenue element, which allows the Company to better track the revenue recovery components of the CGA and LDAF.

Mr. Ferro is also aware of another internal review that was conducted beginning in late 2000. The goal of this review was generally to: (1) codify the steps / tasks in producing CGAs and LDAC rates; (2) address some difficulties experienced in carrying out the gas costing function in a timely manner; and (3) manage the associated tasks of accounting for and monitoring the gas costing and regulatory activity. The review was undertaken for Bay State in Massachusetts as well as Northern in Maine and N.H. The review was, in great part, intended to provide a guidemap for completing a late 2000 transitioning of the CGA and LDAC accounting function to NiSource Corporate Services in Columbus.

The third review related to the CGAC and LDAC functions was in connection with preparing invoice reconciliations and filing such reconciliations with the Department. The Company undertook this initiative because it was struggling to meet the Department's expectations of submitting invoices and schedules in a timely manner for the purpose of facilitating the Department's auditing of CGAC and LDAC costs and collections. The results of this effort came in the form of filing well-organized invoice reconcilations. These filings have been made typically 2 weeks in advance of the required timing of submitting the CGA (and LDAC) reconciliation filings. Attachment AG-9-38 is a copy of the last Peak Period invoice reconciliation filing made with the Department for the 2003-04 Peak Period.

Mr. Ferro also notes that other findings from the intermittent informal reviews conducted by Company personnel are reflected in some of the changes in the Company's proposed tariff revisions filed in this case.

**BULK ATTACHMENT**